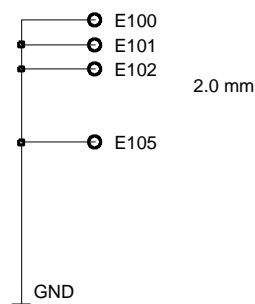
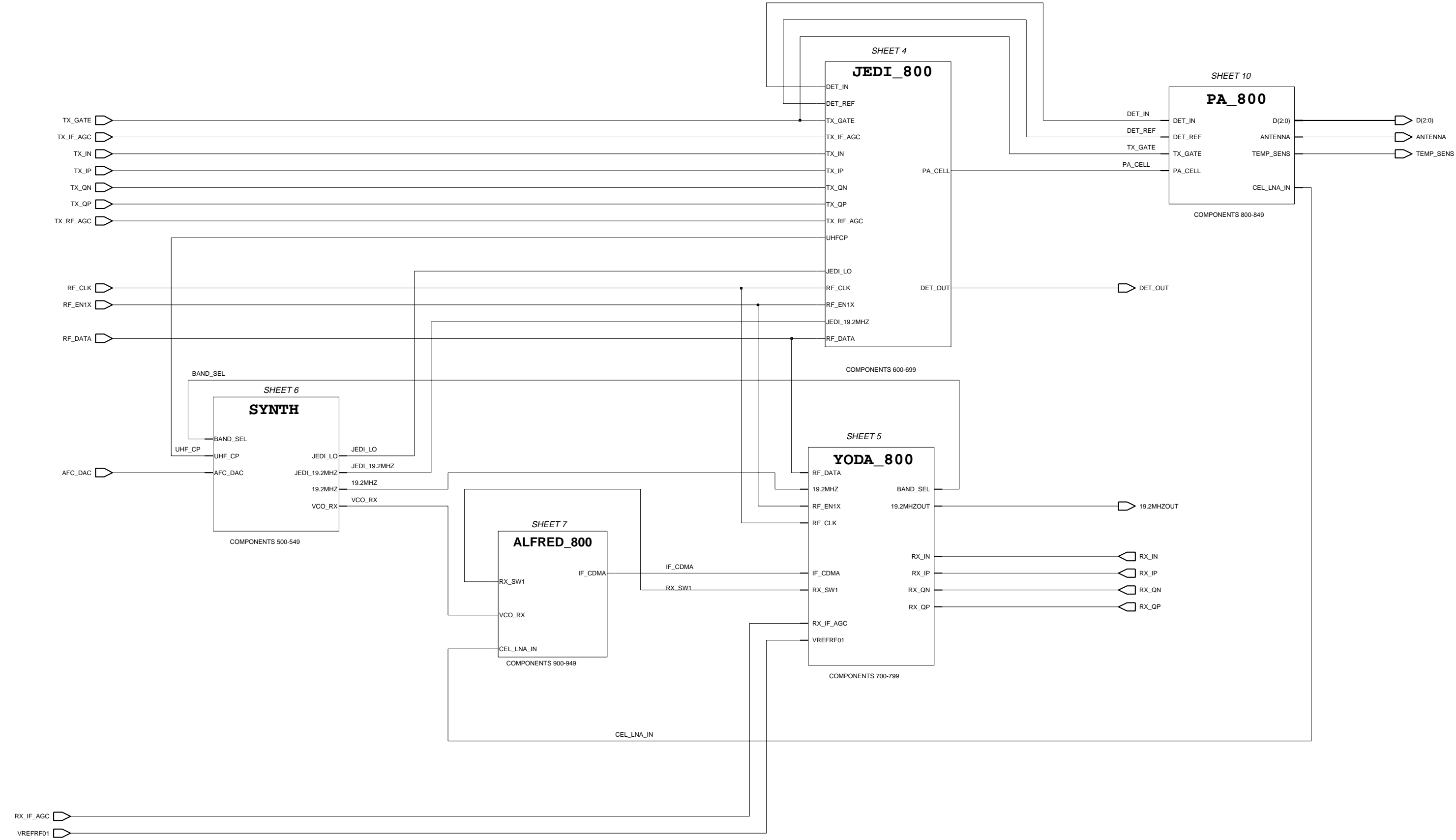
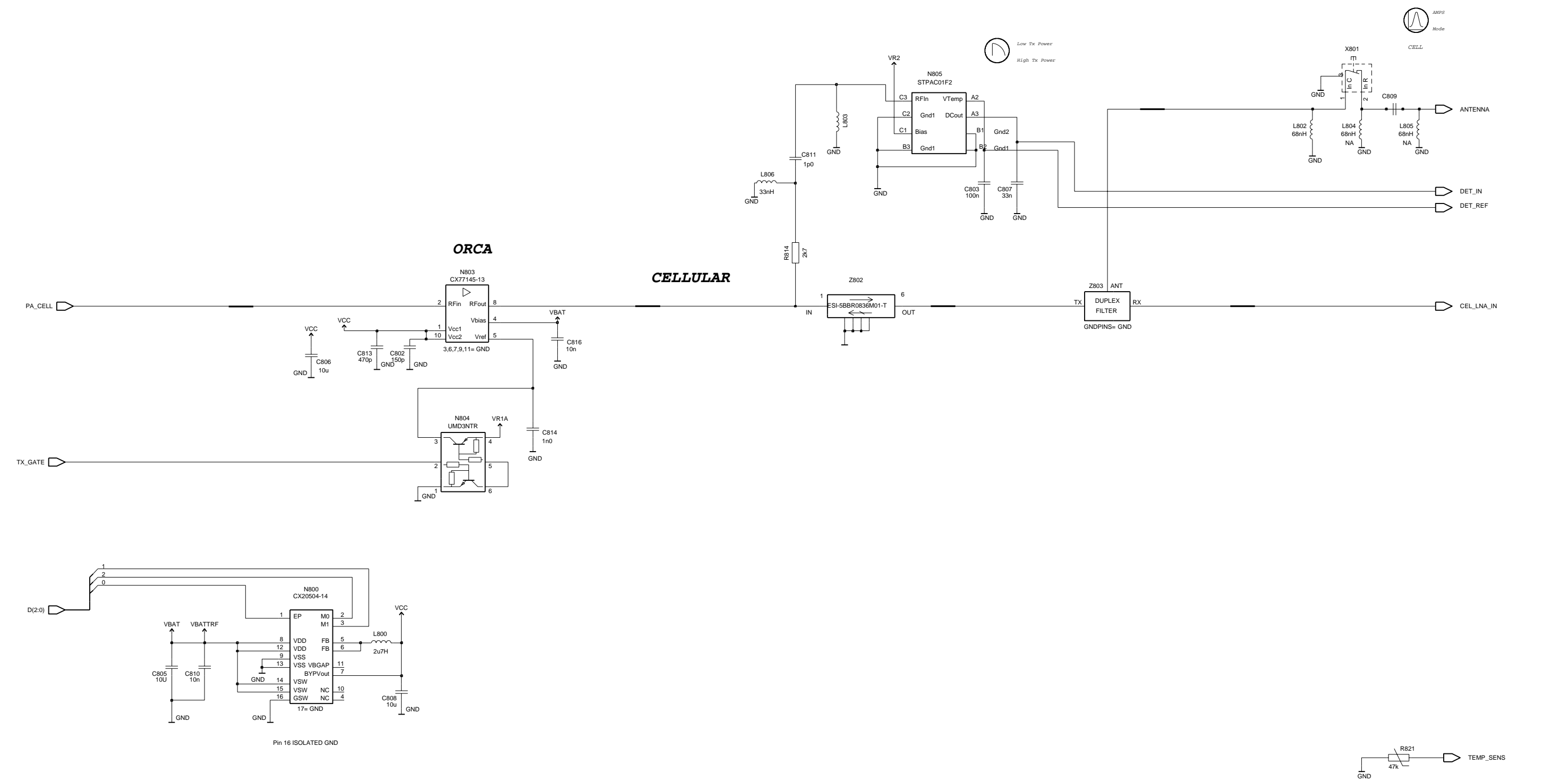


Top-Level Diagram

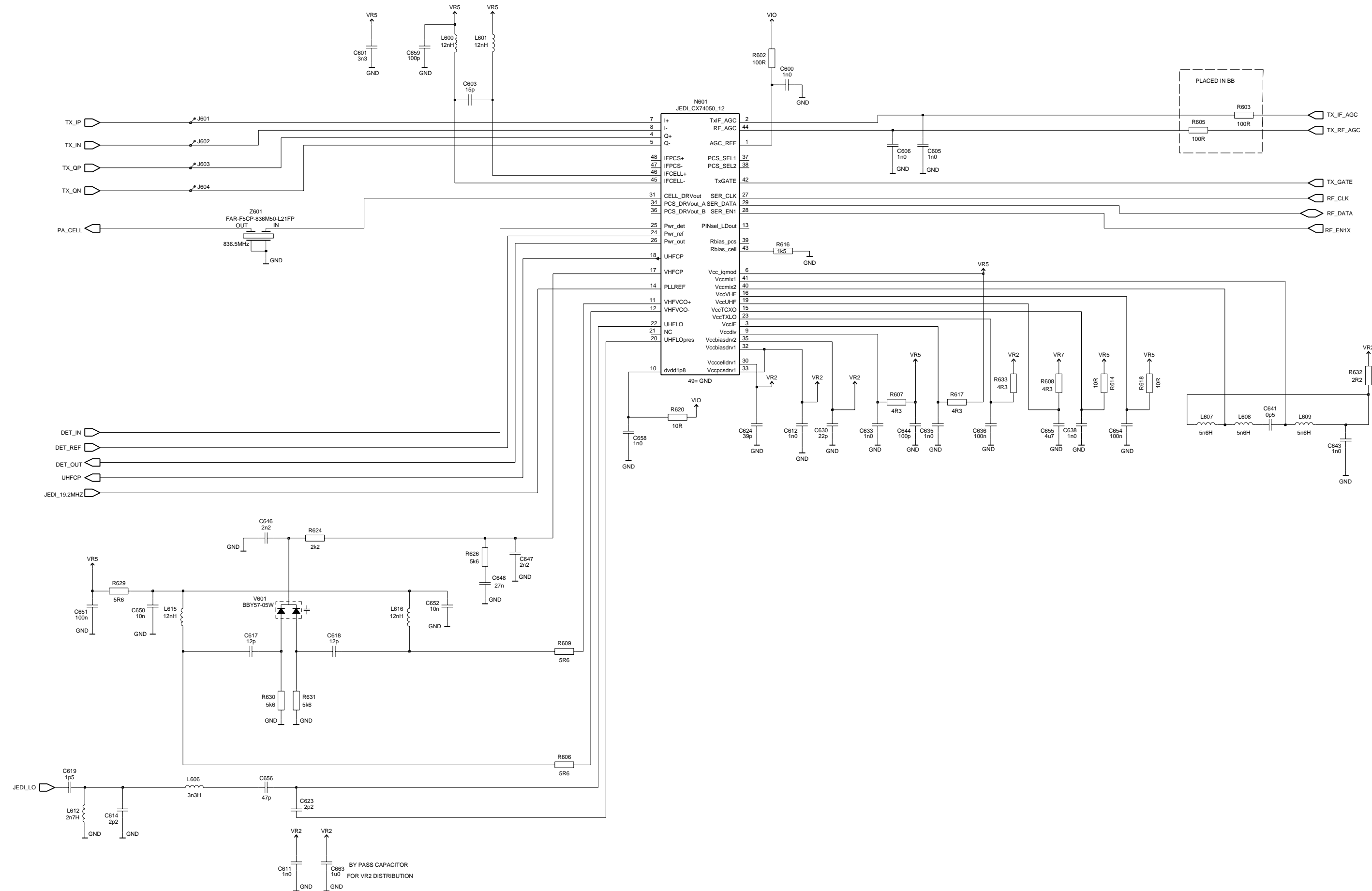


RF Top Level





Jedi



The schematic diagram illustrates the YODA_CX74049_12 IC (N700) and its associated components. The IC is a central component with multiple pins connected to various inputs, outputs, and power supply rails.

Inputs and Outputs:

- Inputs:** 19.2MHZ, RX_IF_AGC, 19.2MHZOUT, RX_IP, RX_IN, RX_QP, RX_QN, VGA_PCS_INb, VGA_PCS_IN, TCXO_IN, AGC_CON, AGC_REF, 19.2OUT/LD, I, Ib, Q, Qb, AVDD_VCO2, VCO_TANKb, AVSS_SYNTH, AVDD_SYNTH, OFFI, OFFQ, AVDD_TCXO(2.7V), AVDD_MIX(2.7V), AVDD_IF(2.7V), AVDD_RX(2.7V), DVDD_SYNTH, DVDD(1.8V).
- Outputs:** IF_CDMA, RF_CLK, RF_DATA, RF_EN1X, BAND_SEL, RX_SW1, VREFRFO1, OUT4_CTRL, TEST_IB, OUT3_CTRL, TEST_I, OUT2_CTRL, TEST_OB, OUT1_CTRL, TEST_Q, VREF, RBIAS, AVSS_SYNTH, AVDD_SYNTH, AVDD_TCXO(2.7V), AVDD_MIX(2.7V), AVDD_IF(2.7V), AVDD_RX(2.7V), DVDD_SYNTH, DVDD(1.8V).

Power Supply and Biasing:

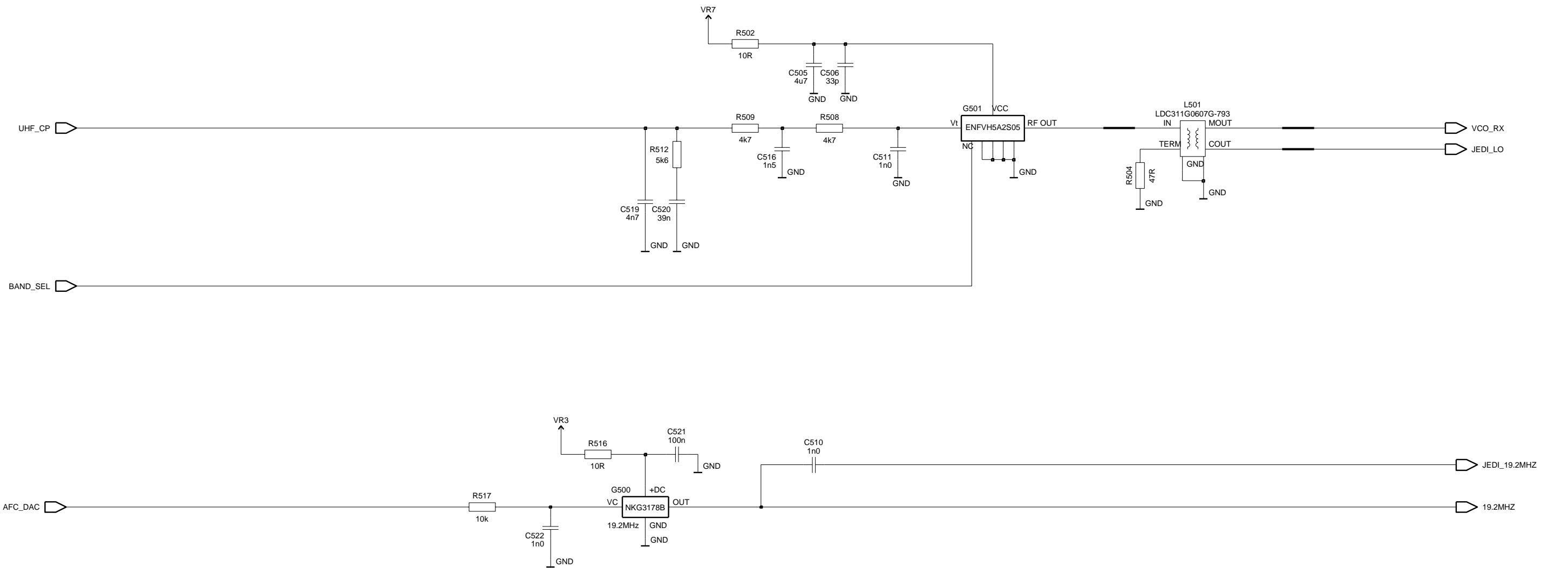
- VIO:** Connected to the VIO pin (pin 33) and several other pins (pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32).
- VR7:** Connected to the VREF pin (pin 3) and several other pins (pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32).
- VR6:** Connected to the VREF pin (pin 3) and several other pins (pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32).
- VR3:** Connected to the VREF pin (pin 3) and several other pins (pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32).
- VR1:** Connected to the VREF pin (pin 3) and several other pins (pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32).

Components and Values:

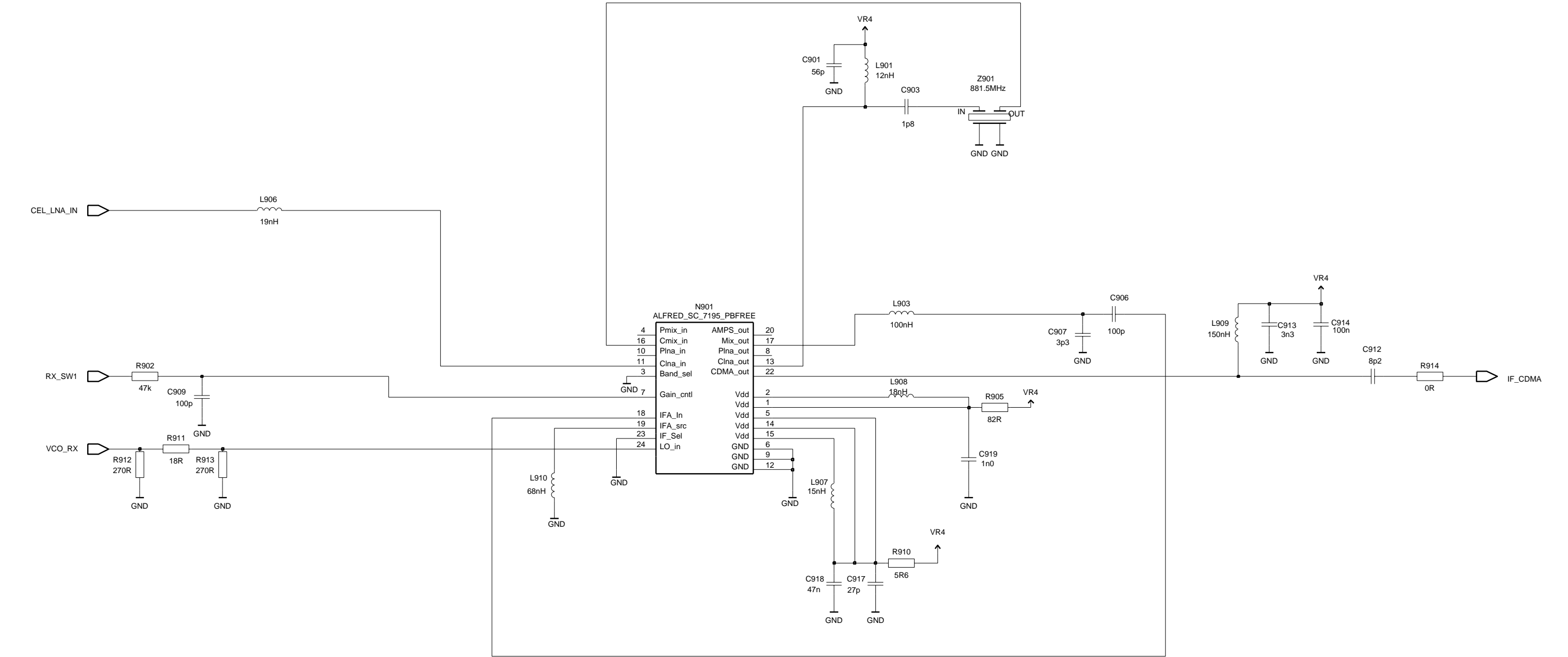
- Resistors:** R702 (1k0), R707, R708, R709, R710, R701 (10R), R706 (120k), R703 (10R), R715 (10R), R718 (5k6), R720 (3k3).
- Capacitors:** C728 (4n7), C703 (10n), C725 (100n), C711 (12p), C720 (100n), C735 (1n0), C736 (1n0), C704 (10n), C710 (100n), C742 (100n), C744 (10n), C712 (1n0), C734 (100n), C730 (100n), C731 (100n), C706 (1n0), C713 (10n), C754 (10p0), C756 (15n), C757 (100n).
- Inductors:** L701 (56nH), L708 (22nH).
- Diodes:** V701 (BBY57-02W).
- Other:** NOT_INTALTED, C702 (3p9), R721 (560R).

Notes:

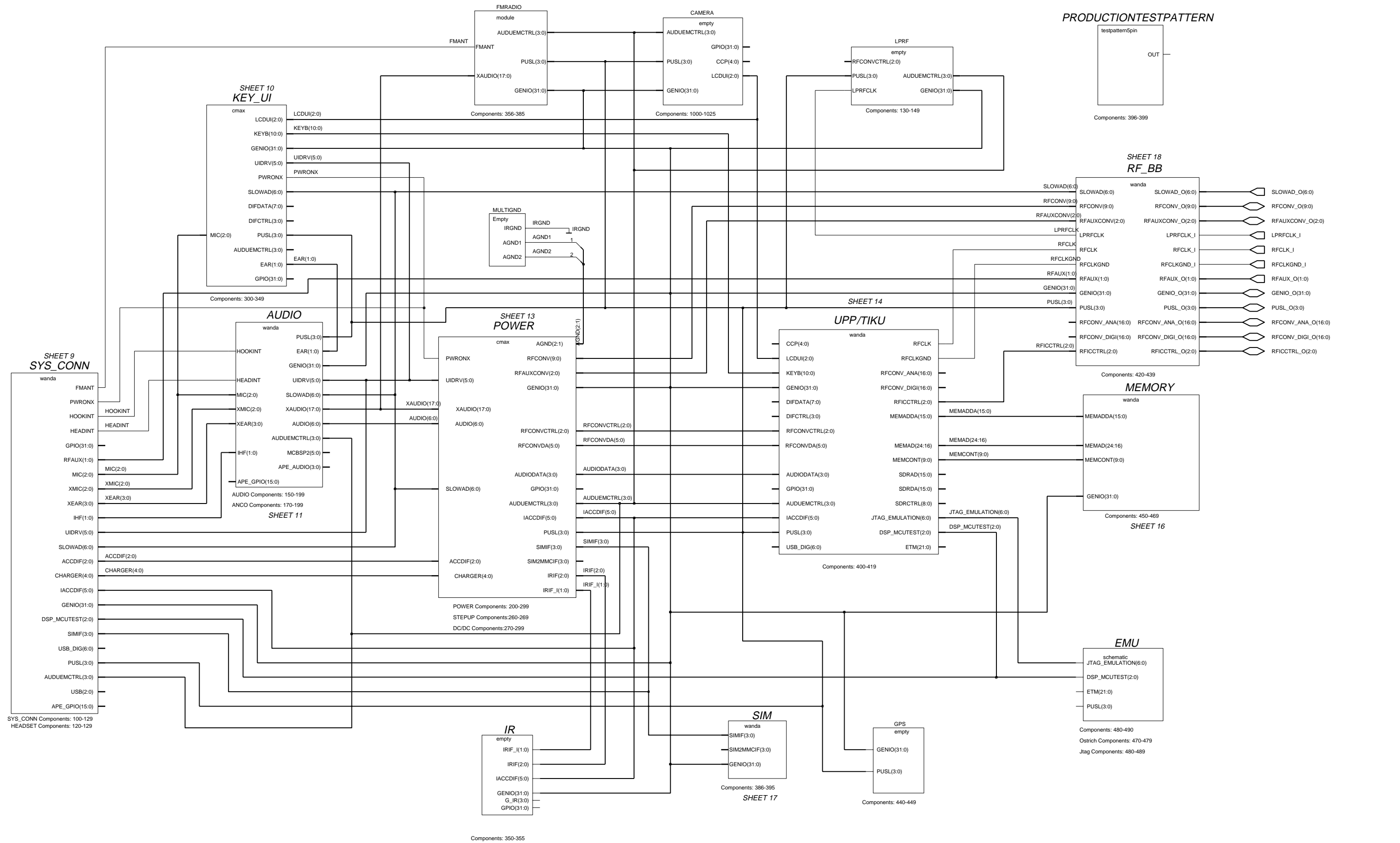
- PLACE AT YODA SIDE
- 33= GND



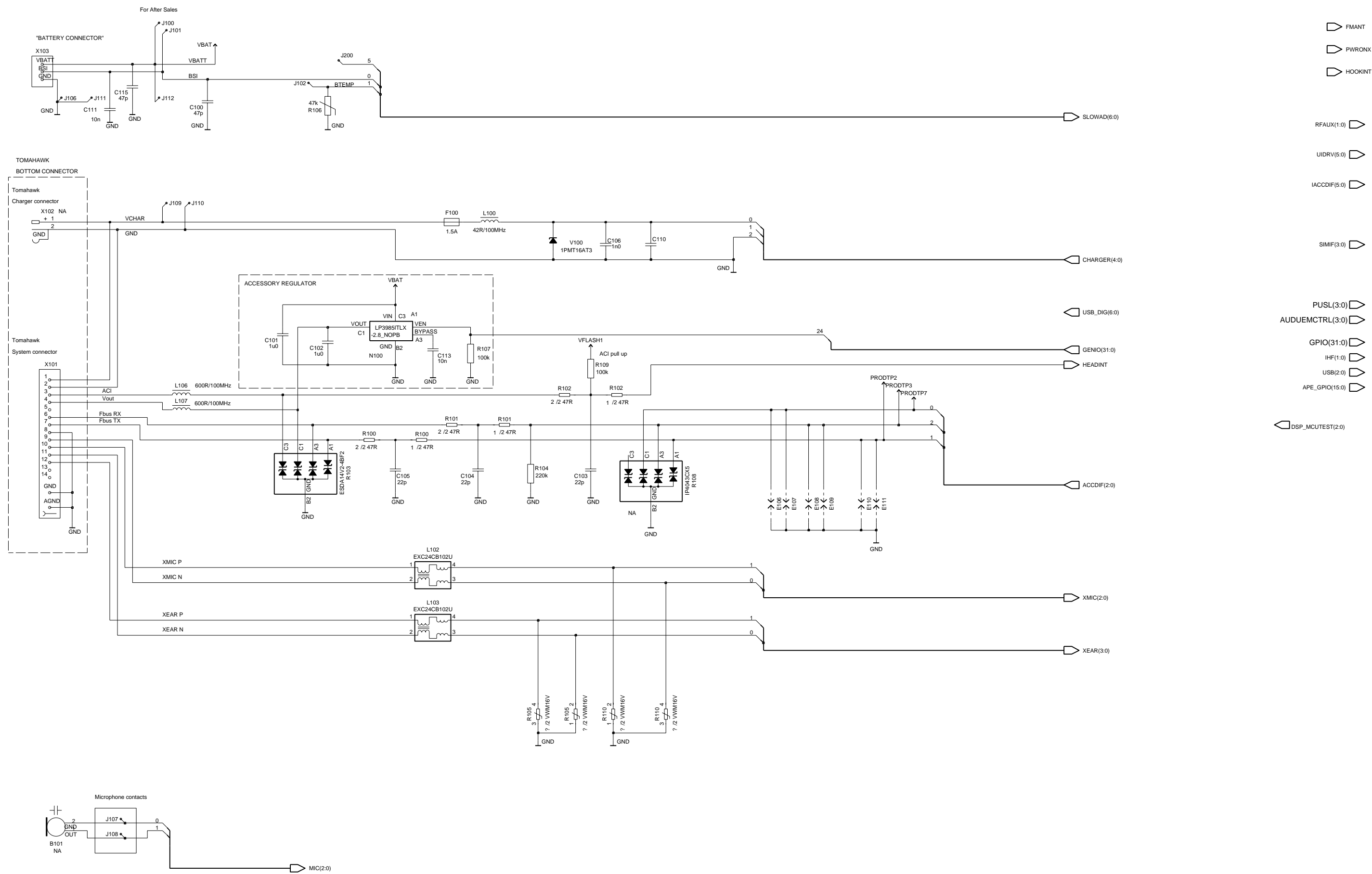
Alfred



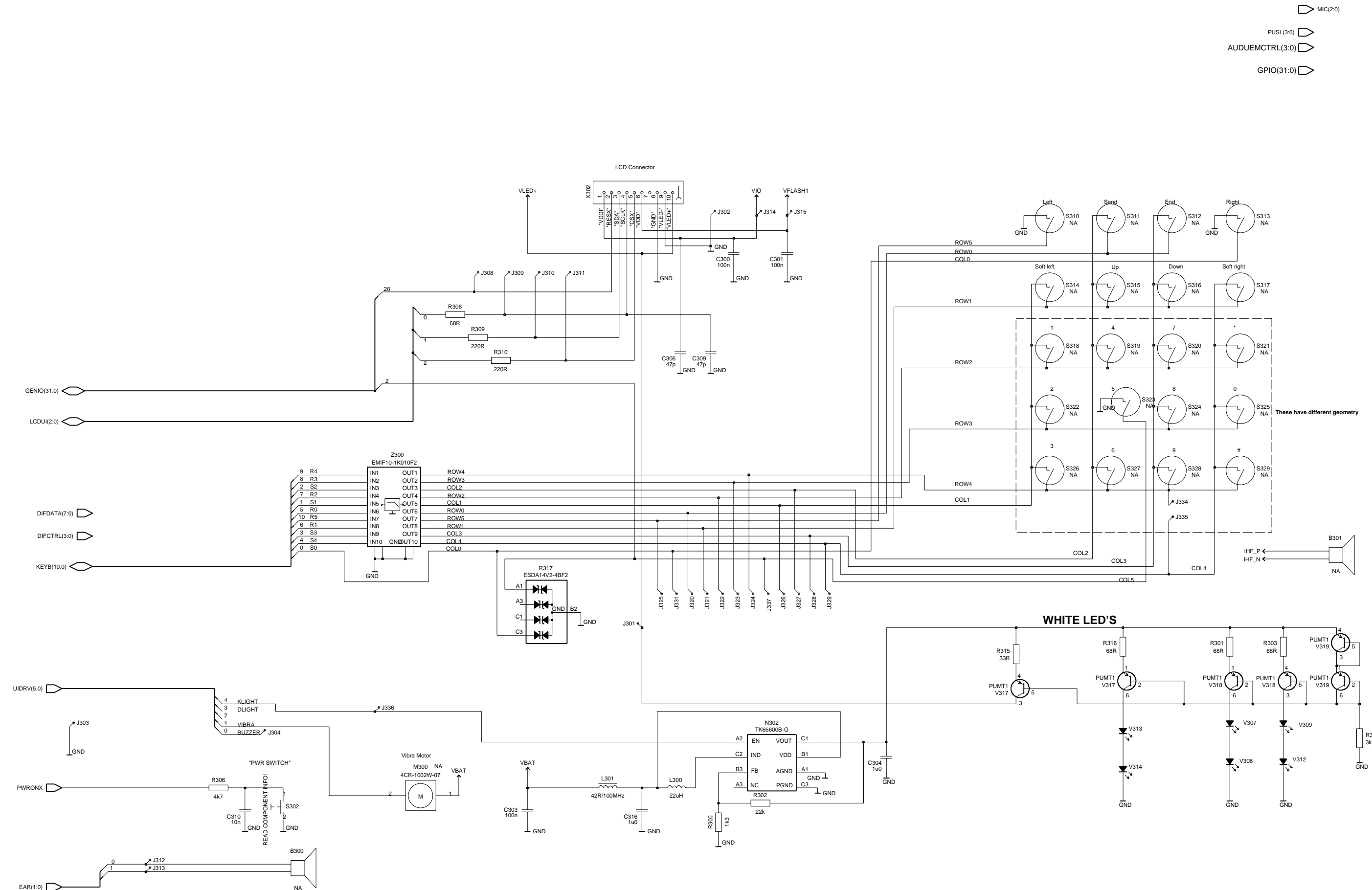
Baseband Top Level



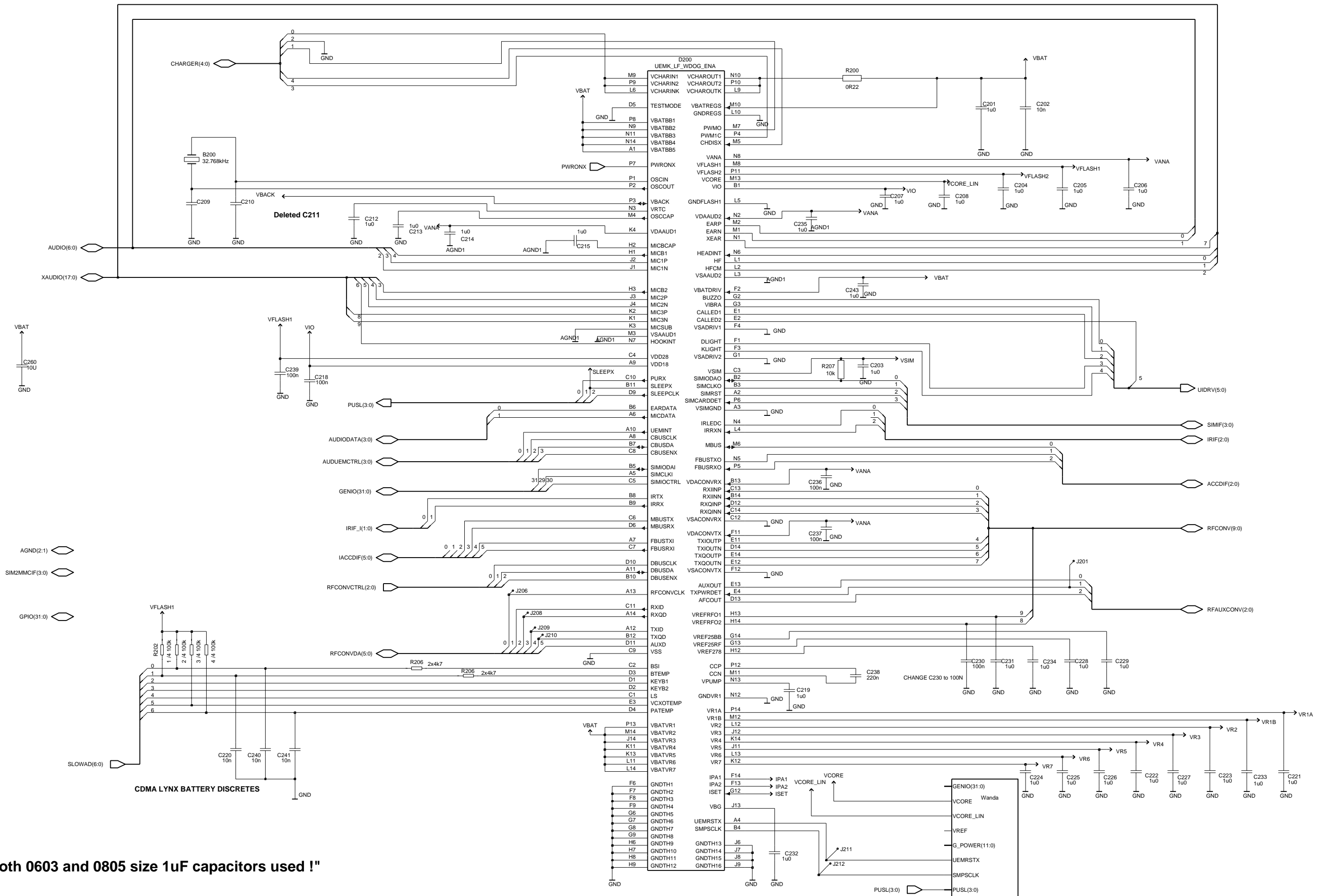
System Connector



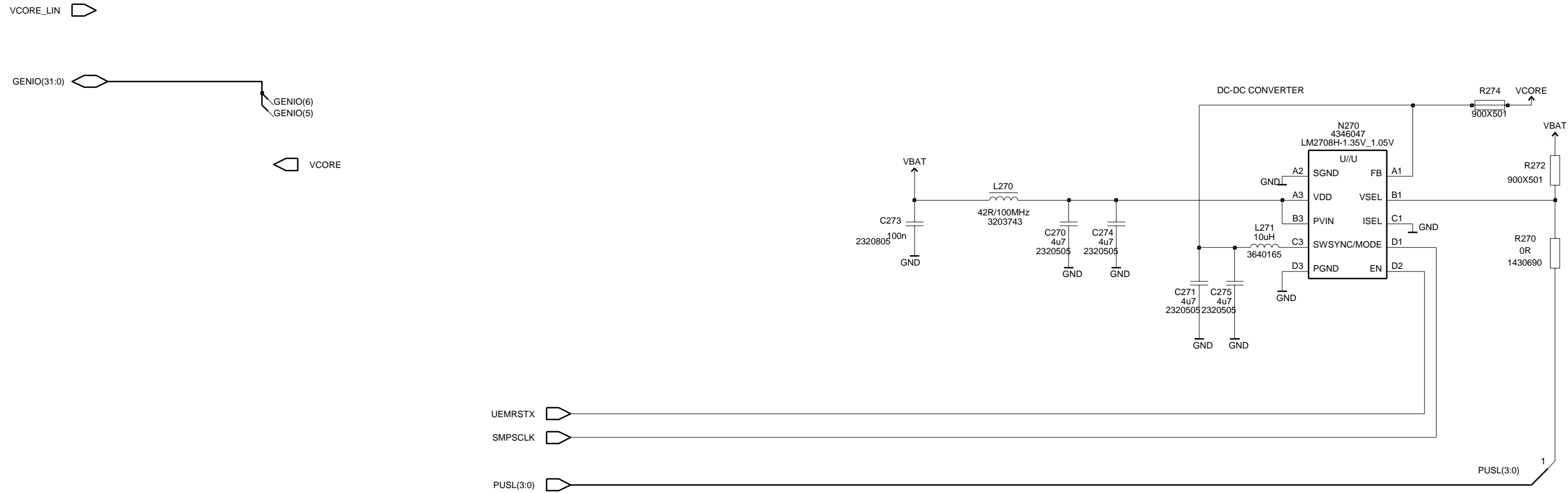
SLOWAD(6:0) 4



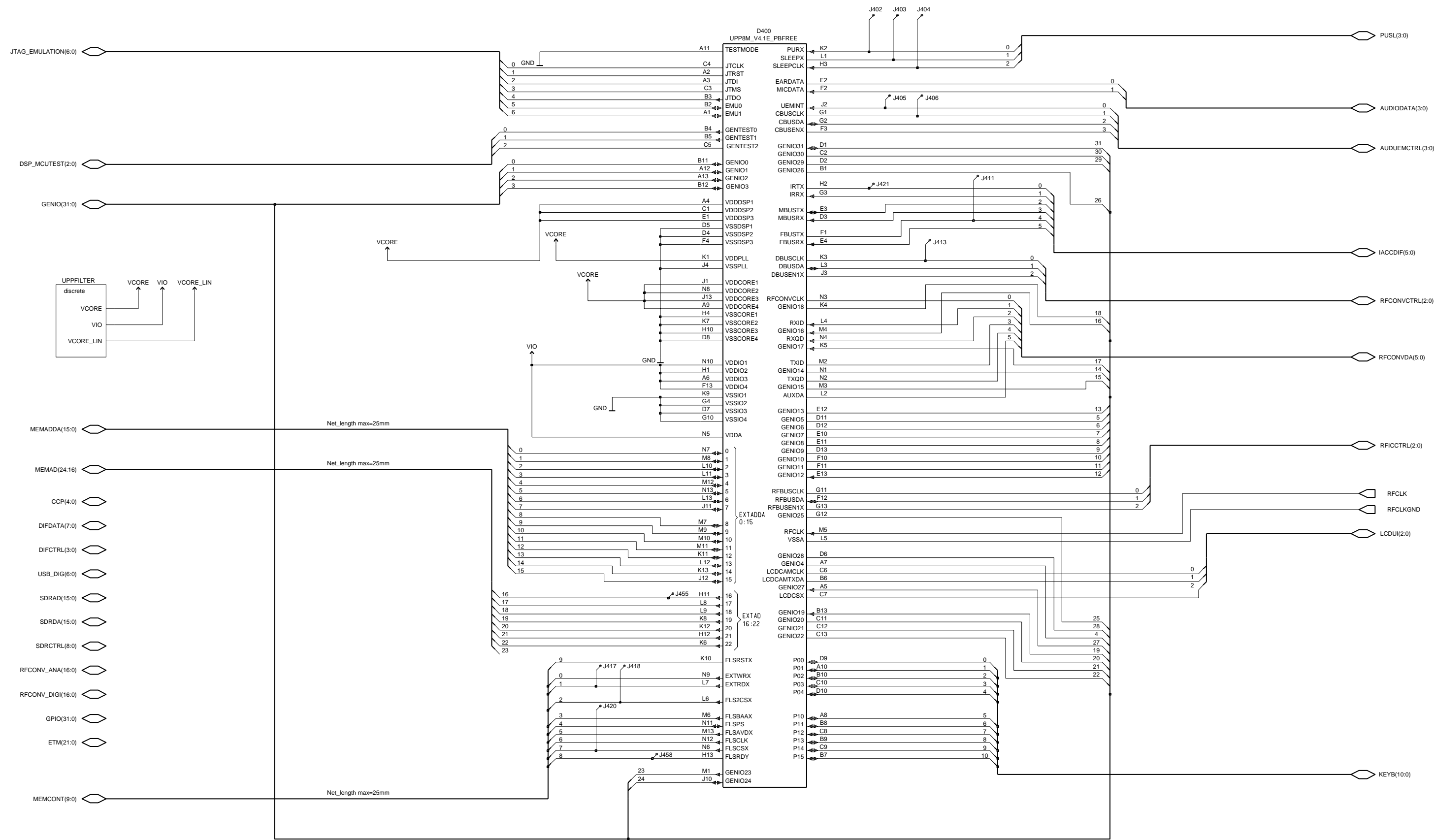
"Both 0603 and 0805 size 1uF capacitors used !"



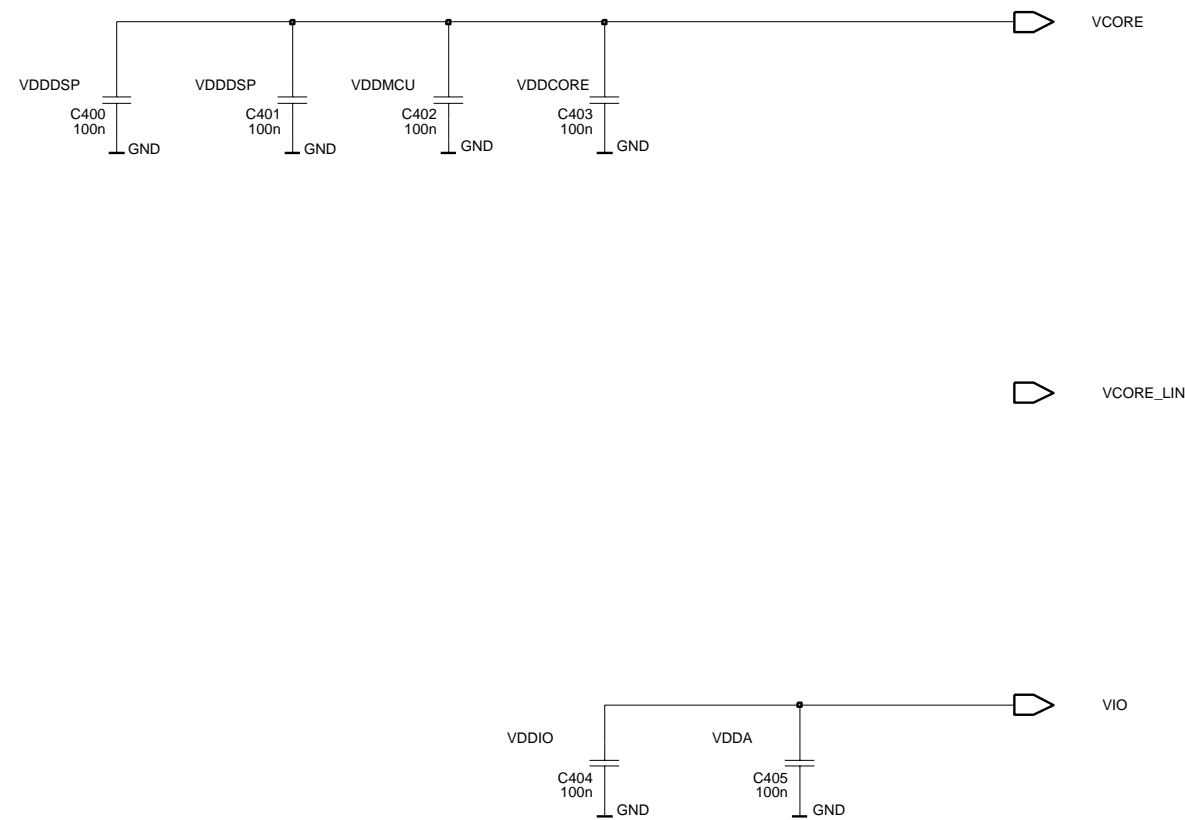
DC/DC Converter



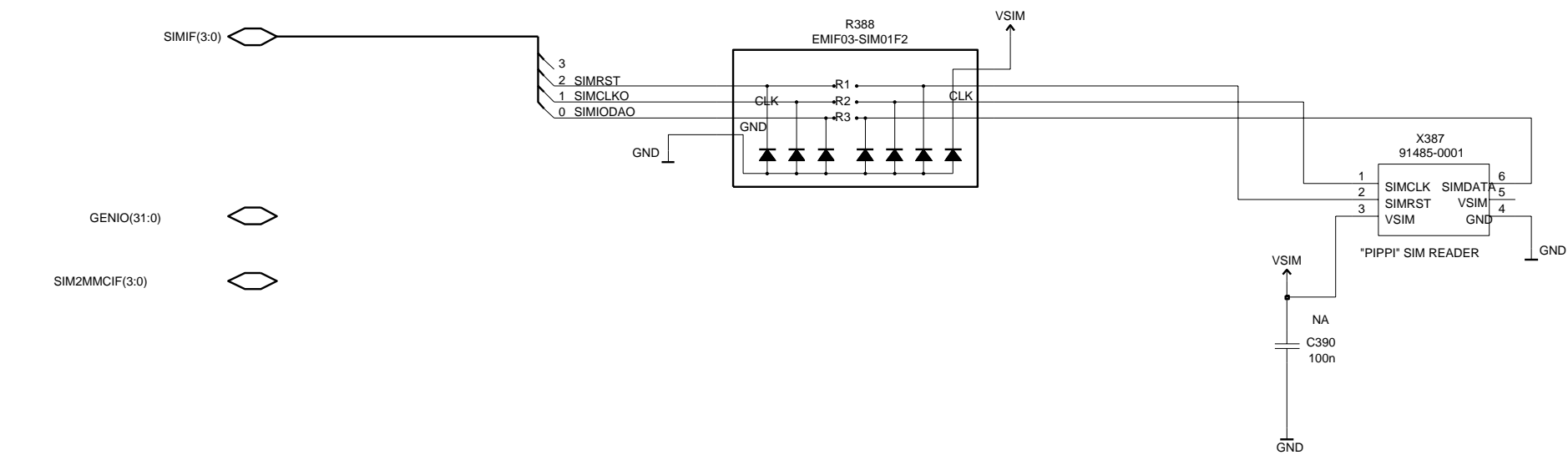
UPP



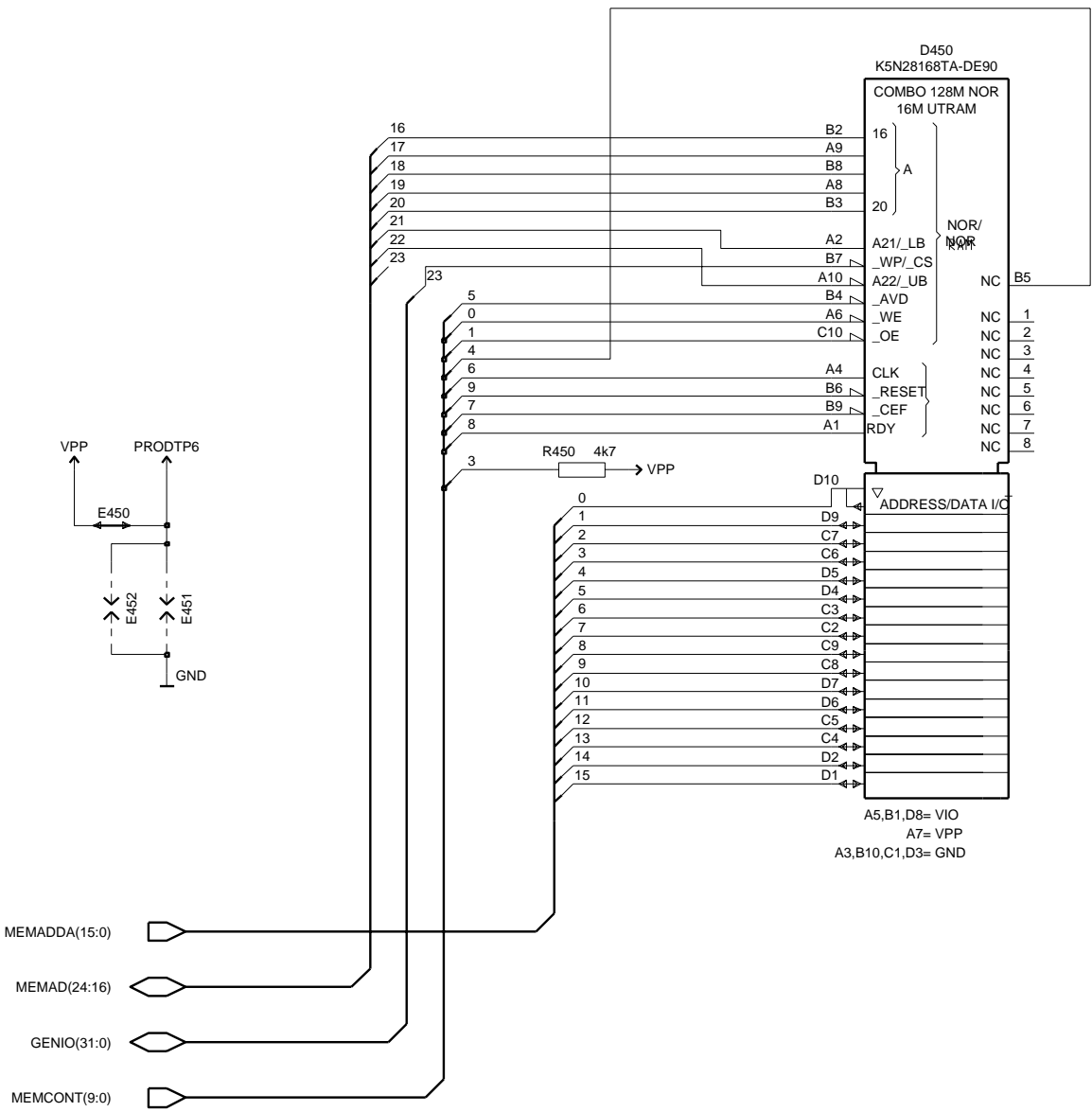
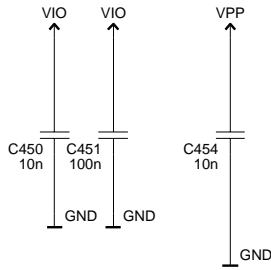
UPP Filter



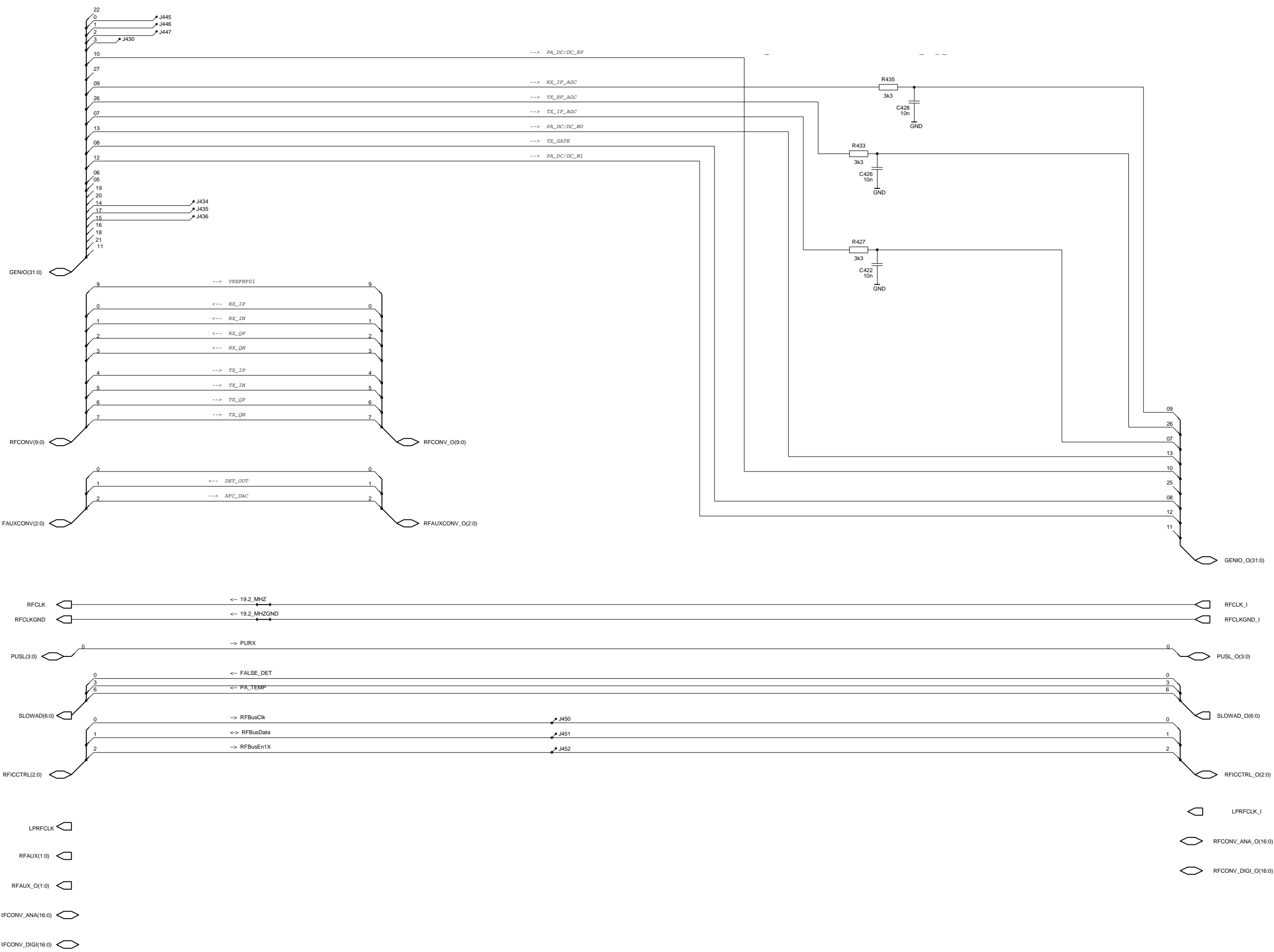
RUIM Reader



Combo Memory 128+8 Mbit



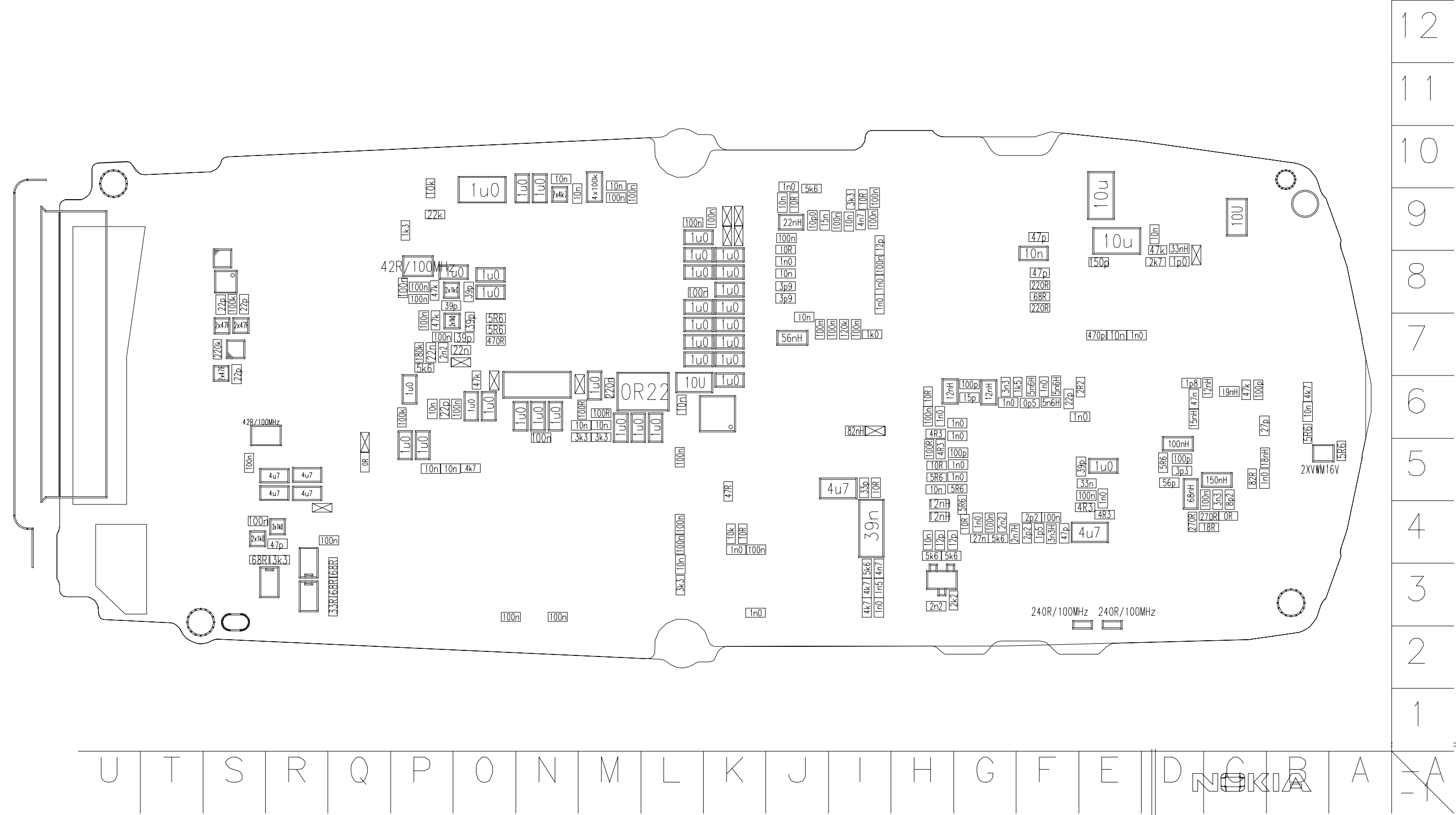
BB-RF Interface



Component Layout — Bottom



Component Values — Bottom



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